

## ABSTRACT

A new and improved bag is provided comprising a sheet of flexible, foldable material, wherein the sheet is coated on one side with metal to define a treated side and an un-treated side; wherein the sheet is folded along a fold line such that (i) the treated side faces outwards, and (ii) transversely opposite side edges are defined; wherein a gusset is provided by in-folding the fold line into the bag, thus defining gusseted bottom edges; wherein transversely opposite end portions of the gusseted bottom edges are angled edges that angle towards the fold line at a predetermined angle and end at the side edges; wherein the sheet is bonded together at adjacent side edges; and wherein the sheet is bonded together at adjacent angled edges that have untreated sides facing each other. Also provided is a method and apparatus for manufacturing the bag.